UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO	
10/564,212	06/16/2006	Thomas Sebastian	10191/4100	7505
26646 KENYON & K	7590 07/14/200 ENYON LLP	EXAMINER		
ONE BROADY		REIS, RYAN ALEXANDER		
NEW YORK, N	NY 10004		ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			07/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicatio	n No.	Applicant(s)			
		10/564,212		SEBASTIAN, THOMAS			
	Office Action Summary	Examiner		Art Unit			
		RYAN REI	S	3752			
	The MAILING DATE of this communicat				dress		
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ 2a)⊟	Responsive to communication(s) filed on <u>16 June 2006</u> . This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) <u>9-22</u> is/are pending in the appl 4a) Of the above claim(s) is/are v Claim(s) is/are allowed. Claim(s) <u>9-22</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Example of Example 12 to 12 to 12 to 12 to 13 to 14 to 15 t	vithdrawn from con n and/or election re xaminer. ፩ is/are: a)⊠ acce n to the drawing(s) be	quirement. pted or b)⊡ objected e held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 01/09/2006.	948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

1. In the present application, original claims 1-8 have been cancelled. Claims 9-22 have been added. Therefore, claims 9-22 are pending in the application and addressed below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

3. Claims 9, 10, 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,641,126 to Nally et al. (Nally et al.).

As to claim 9, Nally et al. discloses a fuel injector comprising: a solenoid coil (52); a tubular support (38) acting as an inner pole of the solenoid coil; and a filter element (66) affixed on an outer contour of the tubular support.

As to claim 10, Nally et al. discloses the outer contour of the tubular support includes grooves (76).

As to claim 12, Nally et al. discloses the tubular support includes a shoulder (bottom of groove 76) on the discharge side of the grooves.

As to claim 13, Nally et al. discloses the filter element rests against the shoulder (see Figures 1 and 2).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 11, and 14-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,641,126 to Nally et al.

As to claim 11, Nally et al. does not expressly disclose machine cutting the grooves with the aid of a form steel.

However, machine cutting with steel is well known in the art for making grooves as desired.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to have made the grooves in the tubular support my machine cutting with the aid of a form steel since the method of machine cutting is well known in the art and does not create a structural difference from the cited prior art.

As to claims 14-16, Nally et al. discloses an extension sleeve (24) surrounding the exterior of the filter element. Nally et al. does not disclose the extension sleeve having an inner diameter (***) that is slightly smaller than an outer diameter (***) of the filter element, whereby a press-fit between the filter element and the tubular support is achieved by the extension sleeve.

However, press-fitting elements is well known in the art for providing secure fastening means. Furthermore, the device of Nally et al. is capable of being modified to increase the outer diameter of the filter to achieve a press-fit if desired.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to have modified the device of Nally et al. by increasing the outer diameter of the filter to be slightly larger than the inner diameter of the extension sleeve to create a press-fit in order to more securely fasten the filter in place.

As to claims 17-21, Nally et al. discloses the filter element includes a cup-shaped filter (see Figures 1 and 2). Nally et al. does not expressly disclose the filter being made of a cloth material and a glass fiber plastic extrusion coat.

However, applicant admits in the specification (page 2, lines 23-26), "The filter element is able to be manufactured like conventional filter elements, in the shape of

a cup and made from cloth material and a fiber glass plastic extrusion coat." (*emphasis* added)

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to have made the filter of a cloth material and a glass fiber plastic extrusion coat according to the conventional means.

As to claim 22, Nally et al. as modified in the rejections above discloses a method for installing a fuel injector, the fuel injector having a solenoid coil, a tubular support acting as an inner pole of the solenoid coil, and a filter element affixed on an outer contour of the tubular support, the method comprising the steps of: producing the filter element, the filter element including a cup-shaped filter having a cloth material; extrusion-coating the filter element with a glass fiber plastic extrusion coat; providing grooves in the outer contour of the tubular support; mounting the filter element onto the outer contour of the tubular support; mounting an extension sleeve on an outer contour of the filter element, an inner diameter of the extension sleeve being slightly smaller than an outer diameter of the filter element; and compressing the glass fiber plastic extrusion coat of the filter element into the grooves in the outer contour of the tubular support, using mounting pressure applied by the extension sleeve.

Application/Control Number: 10/564,212 Page 6

Art Unit: 3752

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent 5,335,863 to DeGrace shows a fuel injector with a solenoid, a filter, a tubular support with grooves and an extension sleeve. US Patents 5,356,079 to Rahbar and 5,516,424 to Strohschein show fuel injectors with a solenoid, a filter, and a tubular support with grooves.

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN REIS whose telephone number is (571)270-5060. The examiner can normally be reached on Monday through Friday 8:00am to 6:00pm EST.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571) 272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/564,212 Page 7

Art Unit: 3752

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RR/
Examiner, Art Unit 3752
/Len Tran/
Supervisory Patent Examiner, Art Unit 3752